

Patent Abstracts of Japan

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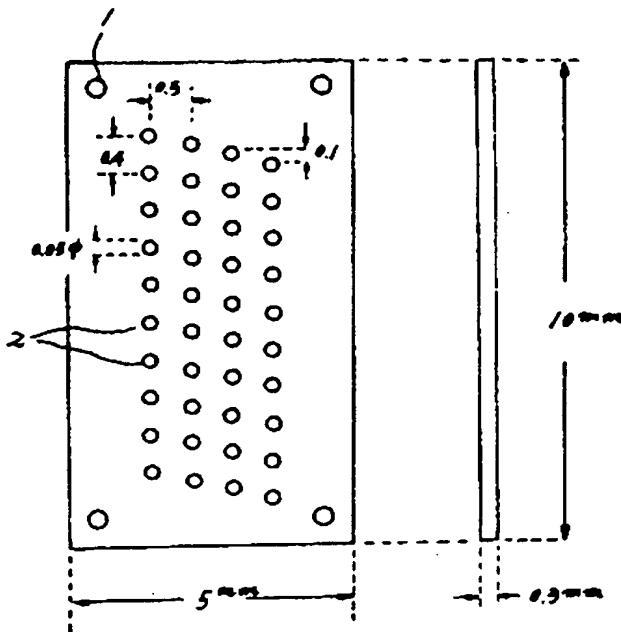
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TITLE : NOZZLE PLATE FOR INK JET PRINT HEAD



ABSTRACT : PURPOSE: To improve the flying-straight property of ink by using a nozzle plate molded of an epoxy resin in which a water-repellent fine particle is dispersed.

CONSTITUTION: A nozzle plate molded of an epoxy resin in which a water-repellent carbon fluoride (CF_n) is dispersed is provided with 20 fine holes 2 of a diameter of $50\mu m$ for example. Thus, for the nozzle plate, no lowering of water repellency occurs, although somewhat abrasion of the surface could be taken place. For example, in the case of an epoxy resin in which 30wt% carbon fluoride is dispersed, no change in injection direction and also in grain size is observed. Also, as the amount of the carbon fluoride to be added increased, the water repellency of the nozzle plate is increased, but its hardness is reduced. Thus, alumina fine powder is preferably added to the epoxy resin.

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